## In the Claims:

Please cancel claims 2-4, 8, 10-12, 15, 17, 19-20, 22-24, 29, 31, 43, 48-49, 55-56, 58, 61-62 and 73-74 without prejudice or disclaimer.

Please substitute the following claims 1, 5, 6, 9, 18, 21, 26, 41, 42, 46, 47, 54, 57, 63, 65, 75 and 78 for pending claims 1, 5, 6, 9, 18, 21, 26, 41, 42, 46, 47, 54, 57, 63, 65, 75 and 78:

1. (once amended) A method of treating a disorder responsive to the induction of apoptosis in an animal suffering therefrom, comprising administering to a mammal in need of such treatment an effective amount of a compound of Formula I:

$$\begin{array}{c|c} & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ \end{array}$$

or a pharmaceutically acceptable salt or prodrug thereof, wherein:

X is O;

Y is CN;

Z is NR<sub>8</sub>R<sub>9</sub>, wherein R<sub>8</sub> and R<sub>9</sub> are independently H or C<sub>1.4</sub>alkyl;

 $R_5$  is hydrogen or  $C_{1-10}$  alkyl;

A is optionally substituted C<sub>6-14</sub> aryl; and

B

B is an optionally substituted indolo ring.

- 5. (once amended) The method of claim 1, wherein A is optionally substituted phenyl.
- 6. (once amended) The method of claim 1, wherein said compound has the Formula II:

$$R_3$$
 $R_4$ 
 $R_5$ 
 $R_2$ 
 $R_1$ 
 $R_2$ 
 $R_3$ 
 $R_4$ 
 $R_5$ 
 $R_5$ 
 $R_5$ 
 $R_5$ 
 $R_1$ 
 $R_2$ 
 $R_3$ 
 $R_4$ 
 $R_5$ 
 $R_5$ 
 $R_5$ 
 $R_5$ 
 $R_5$ 
 $R_7$ 
 $R_7$ 

or a pharmaceutically acceptable salt or prodrug thereof, wherein:

- (a)  $R_1$ - $R_4$  are independently hydrogen, halo, haloalkyl, aryl, fused aryl carbocyclic, a heterocyclic group, a heteroaryl group,  $C_{1-10}$  alkyl, alkenyl, alkynyl, arylalkyl, arylalkynyl, heteroarylalkyl, heteroarylalkyl, heteroarylalkynyl, carbocycloalkyl, heterocycloalkyl, hydroxyalkyl, aminoalkyl, carboxyalkyl, nitro, amino, cyano, acylamido, hydroxy, thiol, acyloxy, azido, alkoxy, carboxy, methylenedioxy, carbonylamido or alkylthiol; and  $R_1$  and  $R_2$ , or  $R_2$  and  $R_3$ , or  $R_3$  and  $R_4$ , taken together with the atoms to which they are attached form a pyrrolo group, wherein said group is optionally substituted;
- (b) the aryl portion of said arylalkyl, the aryl portion of said arylalkenyl and the aryl portion of said arylalkynyl are each independently  $C_{6-14}$  aryl;

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(c) said carbocyclic is C<sub>3-8</sub> cycloalkyl or C<sub>3-8</sub> cycloalkenyl;

(d) said heteroaryl, the heteroaryl portion of said heteroarylalkyl, the heteroaryl portion of said heteroarylalkynyl are each independently selected from the group consisting of thienyl, benzo[b]thienyl, naphtho[2,3-b]thienyl, thianthrenyl, furyl, pyranyl, isobenzofuranyl, chromenyl, xanthenyl, phenoxanthiinyl, 2*H*-pyrrolyl, pyrrolyl, imidazolyl, pyrazolyl, pyridyl, pyrazinyl, pyrimidinyl, pyridazinyl, indolizinyl, isoindolyl, 3*H*-indolyl, indolyl, indazolyl, purinyl, 4*H*-quinolizinyl, isoquinolyl, quinolyl, phthalzinyl, naphthyridinyl, quinozalinyl, cinnolinyl, pteridinyl, carbazolyl, β-carbolinyl, phenanthridinyl, acrindinyl, perimidinyl, phenanthrolinyl, phenazinyl, isothiazolyl, phenothiazinyl, isoxazolyl, furazanyl, phenoxazinyl, 1,4-dihydroquinoxaline-2,3-dione, 7-aminoisocoumarin, pyrido[1,2-a]pyrimidin-4-one, 1,2-benzoisoxazol-3-yl, benzimidazolyl, 2-oxindolyl 2-oxobenzimidazolyl and the N-oxides thereof, and

(e) said heterocyclic and the heterocyclic portion of said heterocycloalkyl are each independently selected from the group consisting of tetrahydrofuranyl, pyranyl, piperidinyl, piperazinyl, pyrrolidinyl, imidazolidinyl, imidazolinyl, indolinyl, isoindolinyl, quinuclidinyl, morpholinyl, isochromanyl, chromanyl, pyrazolidinyl pyrazolinyl, tetronoyl and tetramoyl.



9. The method of claim 6, wherein  $R_1$  and  $R_2$ , or  $R_2$  and  $R_3$ , or  $R_3$  and  $R_4$ , are taken together to form a structure selected from the group consisting of  $-CH_2N(R)CH_2$ -, -N(R)-CH=CH- and -CH=CH-N(R)-, wherein R is hydrogen,  $C_{1-10}$  alkyl, haloalkyl,



aryl, fused aryl, carbocyclic, a heterocyclic group, a heteroaryl group, alkenyl, alkynyl, arylalkyl, arylalkynyl, heteroarylalkyl, heteroarylalkyl, heteroarylalkynyl, carbocycloalkyl, heterocycloalkyl, hydroxyalkyl or aminoalkyl.

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18. (once amended) The method of claim 16, wherein  $R_1$  and  $R_2$ , or  $R_2$  and  $R_3$ , or  $R_3$  and  $R_4$ , are taken together to form a structure selected from the group consisting of  $-CH_2N(R)CH_2-$ , -N(R)-CH=CH- and -CH=CH-N(R)-, wherein R is hydrogen,  $C_{1-10}$  alkyl, haloalkyl, aryl, fused aryl, carbocyclic, a heterocyclic group, a heteroaryl group, alkenyl, alkynyl, arylalkyl, arylalkenyl, arylalkynyl, heteroarylalkyl, heteroarylalkenyl, heteroarylalkyl, carbocycloalkyl, heterocycloalkyl, hydroxyalkyl or aminoalkyl.



21. (once amended) The method of claim 16, wherein  $R_1$  and  $R_2$  together form an optionally substituted ring, wherein said ring is pyrrolo.



- 26. (once amended) The method of claim 1, wherein said compound is selected from the group consisting of:
- 2-Amino-3-cyano-4-(3-methoxy-4,5-methylenedioxyphenyl)-4H-indolo[4,5-b]pyran;
  - 2-Amino-3-cyano-4-(2-bromo-4,5-dimethoxyphenyl)-4H-indolo[4,5-b]pyran;
  - 2-Amino-3-cyano-4-(3-bromo-4,5-dimethoxyphenyl)-4H-indolo[4,5-b]pyran;
- 2-Amino-3-cyano-4-(3-bromo-4,5-dimethoxyphenyl)-8-methyl-4*H*-indolo[4,5-b]pyran;



2-Amino-3-cyano-4-(3,4,5-trimethoxyphenyl)-4H-indolo[4,5-b]pyran;

2-Amino-3-cyano-4-(3-nitrophenyl)-4H-indolo[4,5-b]pyran;

2-Amino-3-cyano-4-(3-cyanophenyl)-4H-indolo[4,5-b]pyran;

2-Amino-3-cyano-4-(3,5-dimethoxyphenyl)-4H-indolo[4,5-b]pyran; and

9-Acetamide-2-amino-3-cyano-4-(3-bromo-4,5-dimethoxyphenyl)-4H-indolo[4,5-b]pyran.

41. (once amended) A pharmaceutical composition comprising a pharmaceutically acceptable excipient or carrier and a compound of Formula I:



$$\begin{array}{c|c} & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ \end{array}$$

or a pharmaceutically acceptable salt or prodrug thereof, wherein:

X is O;

Y is CN;

Z is  $NR_8R_9$ , wherein  $R_8$  and  $R_9$  are independently H or  $C_{1-4}$ alkyl;

R<sub>5</sub> is hydrogen or C<sub>1-10</sub> alkyl;

A is optionally substituted  $C_{6-14}$  aryl; and

B is an optionally substituted indoloring.



- 42. (once amended) The pharmaceutical composition of claim 41, wherein A is optionally substituted phenyl.
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46. (once amended) The pharmaceutical composition of claim 41, comprising a pharmaceutically acceptable excipient or carrier and a compound of Formula II:

$$R_3$$
 $R_2$ 
 $R_1$ 
 $R_3$ 
 $R_4$ 
 $R_5$ 
 $R_5$ 
 $R_1$ 
(II)

or a pharmaceutically acceptable salt or prodrug thereof, wherein:

- (a)  $R_1$ - $R_4$  are independently hydrogen, halo, haloalkyl, aryl, fused aryl, carbocyclic, a heterocyclic group, a heteroaryl group,  $C_{1-10}$  alkyl, alkenyl, alkynyl, arylalkyl, arylalkynyl, heteroarylalkyl, heteroarylalkynyl, heteroarylalkyl, heteroarylalkyl, heteroarylalkynyl, carbocycloalkyl, heterocycloalkyl, hydroxyalkyl, aminoalkyl, carboxyalkyl, nitro, amino, cyano, acylamido, hydroxy, thiol, acyloxy, azido, alkoxy, carboxy, methylenedioxy, carbonylamido or alkylthiol; and  $R_1$  and  $R_2$ , or  $R_2$  and  $R_3$ , or  $R_3$  and  $R_4$ , taken together with the atoms to which they are attached form a pyrrolo group, wherein said group is optionally substituted;
- (b) the aryl portion of said arylalkyl, the aryl portion of said arylalkenyl and the aryl portion of said arylalkynyl are each independently  $C_{6-14}$  aryl;
  - (c) said carbocyclic is C<sub>3-8</sub> cycloalkyl or C<sub>3-8</sub> cycloalkenyl;

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- (d) said heteroaryl, the heteroaryl portion of said heteroarylalkyl, the heteroaryl portion of said heteroarylalkynyl are each independently selected from the group consisting of thienyl, benzo[b]thienyl, naphtho[2,3-b]thienyl, thianthrenyl, furyl, pyranyl, isobenzofuranyl, chromenyl, xanthenyl, phenoxanthiinyl, 2*H*-pyrrolyl, pyrrolyl, imidazolyl, pyrazolyl, pyridyl, pyrazinyl, pyrididinyl, pyridazinyl, indolizinyl, isoindolyl, 3*H*-indolyl, indolyl, indazolyl, purinyl, 4*H*-quinolizinyl, isoquinolyl, quinolyl, phthalzinyl, naphthyridinyl, quinozalinyl, cinnolinyl, pteridinyl, carbazolyl, β-carbolinyl, phenanthridinyl, acrindinyl, perimidinyl, phenanthrolinyl, phenazinyl, isothiazolyl, phenothiazinyl, isoxazolyl, furazanyl, phenoxazinyl, 1,4-dihydroquinoxaline-2,3-dione, 7-aminoisocoumarin, pyrido[1,2-a]pyrimidin-4-one, 1,2-benzoisoxazol-3-yl, benzimidazolyl, 2-oxindolyl 2-oxobenzimidazolyl and the N-oxides thereof; and
- (e) said heterocyclic and the heterocyclic portion of said heterocycloalkyl are each independently selected from the group consisting of tetrahydrofuranyl, pyranyl, piperidinyl, piperazinyl, pyrrolidinyl, imidazolidinyl, imidazolinyl, indolinyl, isoindolinyl, quinuclidinyl, morpholinyl, isochromanyl, chromanyl, pyrazolidinyl pyrazolinyl, tetronoyl and tetramoyl.
- 47. (once amended) The pharmaceutical composition of claim 46, wherein  $R_1$  and  $R_2$ , or  $R_2$  and  $R_3$ , or  $R_3$  and  $R_4$ , are taken together to form a structure selected from the group consisting of  $-CH_2N(R)CH_2-$ , -N(R)-CH=CH- and -CH=CH-N(R)-, wherein R is hydrogen,  $C_{1-10}$  alkyl, haloalkyl, aryl, fused aryl, carbocyclic, a heterocyclic



group, a heteroaryl group, alkenyl, alkynyl, arylalkyl, arylalkynyl, arylalkyl, heteroarylalkyl, heteroarylalkynyl, carbocycloalkyl, heterocycloalkyl, hydroxyalkyl or aminoalkyl.

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54. (once amended) The pharmaceutical composition of claim 53, wherein R<sub>1</sub> and R<sub>2</sub>, or R<sub>2</sub> and R<sub>3</sub>, or R<sub>3</sub> and R<sub>4</sub>, are taken together to form a structure selected from the group consisting of -CH<sub>2</sub>N(R)CH<sub>2</sub>-, -N(R)-CH=CH- and -CH=CH-N(R)-, wherein R is hydrogen, C<sub>1-10</sub> alkyl, haloalkyl, aryl, fused aryl, carbocyclic, a heterocyclic group, a heteroaryl group, alkenyl, alkynyl, arylalkyl, arylalkenyl, arylalkynyl, heteroarylalkyl, heteroarylalkyl, heteroarylalkyl, heteroarylalkyl, heterocycloalkyl, hydroxyalkyl or aminoalkyl.

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57. (once amended) The pharmaceutical composition of claim 53, wherein  $R_1$  and  $R_2$  together form an optionally substituted ring, wherein said ring is pyrrolo.

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- 63. (once amended) A pharmaceutical composition comprising a pharmaceutically acceptable excipient or carrier and a compound selected from the group consisting of:
- 2-Amino-3-cyano-4-(3-methoxy-4,5-methylenedioxyphenyl)-4H-indolo[4,5-b]pyran;
  - 2-Amino-3-cyano-4-(2-bromo-4,5-dimethoxyphenyl)-4H-indolo[4,5-b]pyran;
  - 2-Amino-3-cyano-4-(3-bromo-4,5-dimethoxyphenyl)-4H-indolo[4,5-b]pyran;

2-Amino-3-cyano-4-(3-bromo-4,5-dimethoxyphenyl)-8-methyl-4*H*-indolo[4,5-b]pyran;

- 2-Amino-3-cyano-4-(3,4,5-trimethoxyphenyl)-4H-indolo[4,5-b]pyran;
- 2-Amino-3-cyano-4-(3-nitrophenyl)-4H-indolo[4,5-b]pyran;
- 2-Amino-3-cyano-4-(3-cyanophenyl)-4H-indolo[4,5-b]pyran;
- 2-Amino-3-cyano-4-(3,5-dimethoxyphenyl)-4H-indolo[4,5-b]pyran; and
- 9-Acetamide-2-amino-3-cyano-4-(3-bromo-4,5-dimethoxyphenyl)-4H-indolo[4,5-b]pyran.

65. (once amended) The pharmaceutical composition of claim 64, wherein said known cancer chemotherapeutic agent is selected from the group consisting of busulfan, cis-platin, mitomycin 6, carboplatin, colchicine, vinblastine, paclitaxel, docetaxel, camptothecin, topotecan, doxorubicin, etoposide, 5-azacytidine, 5-fluorouracil, methotrexate, 5-fluoro-2'-deoxy-uridine, ara-C, hydroxyurea, thioguanine, melphalan, chlorambucil, cyclophosamide, ifosfamide, vincristine, mitoguazone, epirubicin, aclarubicin, bleomycin, mitoxantrone, elliptinium, fludarabine, octreotide, retinoic acid, tamoxifen, Herceptin®, Rituxan® and alanosine.

75. (once amended) An indolopyran of Formula I:

(I)

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B R<sub>5</sub> Y

or a pharmaceutically acceptable salt or prodrug thereof, wherein:

B is optionally substituted indolo;

X is O;

Y is CN;

Z is NR<sub>8</sub>R<sub>9</sub>, wherein R<sub>8</sub> and R<sub>9</sub> are independently H or C<sub>1-4</sub>alkyl;

R<sub>5</sub> is hydrogen or C<sub>1-10</sub> alkyl; and

A is optionally substituted  $C_{6-14}$  aryl.

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78. (once amended) A compound selected from the group consisting of:

2-Amino-3-cyano-4-(3-methoxy-4,5-methylenedioxyphenyl)-4H-indolo[4,5-b]pyran;

2-Amino-3-cyano-4-(2-bromo-4,5-dimethoxyphenyl)-4H-indolo[4,5-b]pyran;

2-Amino-3-cyano-4-(3-bromo-4,5-dimethoxyphenyl)-4*H*-indolo[4,5-b]pyran;

2-Amino-3-cyano-4-(3-bromo-4,5-dimethoxyphenyl)-8-methyl-4H-indolo[4,5-b]pyran;

2-Amino-3-cyano-4-(3,4,5-trimethoxyphenyl)-4*H*-indolo[4,5-b]pyran;

2-Amino-3-cyano-4-(3-nitrophenyl)-4H-indolo[4,5-b]pyran;

2-Amino-3-cyano-4-(3-cyanophenyl)-4H-indolo[4,5-b]pyran;



2-Amino-3-cyano-4-(3,5-dimethoxyphenyl)-4H-indolo[4,5-b]pyran; and

9-Acetamide-2-amino-3-cyano-4-(3-bromo-4,5-dimethoxyphenyl)-4H-indolo[4,5-b]pyran.

Please add the following new claims 79-81:

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79. (new) The method of claim 1, wherein said aryl is selected from the group consisting of phenyl, napthyl, penanthrenyl, anthracenyl, indenyl, azulenyl, biphenyl, biphenyl and fluorenyl.

80. (new) The pharmaceutical composition of claim 41, wherein said aryl is selected from the group consisting of phenyl, napthyl, penanthrenyl, anthracenyl, indenyl, azulenyl, biphenyl, biphenyl and fluorenyl.

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81. (new) The indolopyran of claim 75, wherein said aryl is selected from the group consisting of phenyl, napthyl, penanthrenyl, anthracenyl, indenyl, azulenyl, biphenyl, biphenyl and fluorenyl.